



AD120B

**RCBO 1M 1P 10kA C-20A 30mA A**

**Architecture**

Neutral position	right
Number of protected poles	1
Number of poles	1 P
Type of pole	1 P
Curve	C

**Main electrical features**

Frequency	50 Hz
Rated short circuit breaking capacity I <sub>cn</sub> AC according IEC60898-1	10 kA
Rated operational voltage U <sub>e</sub>	230/240 V

**Voltage**

Rated insulation voltage	250 V
Max operating voltage	253 V
Rated impulse withstand voltage	4000 V

**Electric current**

Rated residual operating current	30 mA
Withstand not tripping on 8-20 ?s wave	3 kA
Rated short circuit breaking capacity I <sub>cn</sub> under 230V AC according IEC60898-1	10 kA
Breaking and opening capacity	6 kA
Magnetic regulating current at 40° C	5/10 I <sub>n</sub>
min/maxi threshold value of the AC thermal operation	1,13/1,45 I <sub>n</sub>

**Electric current / temperature**

Rating current -15°C	24,73 A
Rating current -20°C	25,25 A
Rating current 0°C	23,15 A
Rating current 10°C	22,1 A
Rating current -10°C	24,2 A
Rating current 15°C	21,58 A
Rating current 20°C	21,05 A
Rating current 25°C	20,53 A
Rating current -25°C	25,78 A
Rating current 30°C	20 A

Technical Properties

Rating current 35°C	19,6 A
Rating current 40°C	19,2 A
Rating current 45°C	18,8 A
Rating current 5°C	22,63 A
Rating current -5°C	23,68 A
Rating current 50°C	18,4 A
Rating current 55°C	18 A
Rating current 60°C	17,6 A

**Current correction factors**

Correction factor of rating current for 2 devices placed 1 side-by-side	
Correction factor of rating current for 3 devices placed 0,95 side-by-side	
Correction factor of rating current for 4 and 5 devices 0,9 placed side-by-side	
Correction factor of rating current for 6 devices placed 0,85 side-by-side	

**Power**

Power loss per pole at In	2,98 W
Total power loss under IN	5,76 W

**Tripping**

Protected against nuisance tripping	no
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**Endurance**

Electric endurance in number of cycles	2000
Number of mechanical operations	1000

**Dimensions**

Depth of installed product	70 mm
Height of installed product	115 mm
Width of installed product	17,5 mm

**Installation, mounting**

Tightening torque	2,1Nm
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**Connection**

Connection cross-section at output with screw, for flexible conductor	1/16 mm <sup>2</sup>
Connection cross-section of the access with screws, with flexible conductor	1/16 mm <sup>2</sup>
Connection cross-section at output with screw, for massive conductor	1/25 mm <sup>2</sup>
Connection cross-section for rigid conductor, upstream terminals with screws	1/25 mm <sup>2</sup>

**Standards**

Standard text	IEC 61009-1, AS/NZS 61009-1
European directive WEEE	not concerned

**Safety**

Protection index IP	IP20
Residual current type	A

**Use conditions**

Degree of pollution according to IEC 60664 / IEC 60947-2	2
Class of energy limitation I <sup>2</sup> t	3
Altitude	2000 m
Air humidity protection	Execution II